

ABSTRACT5 **Method of magnetic resonance imaging**

The invention provides a method of magnetic resonance
imaging of regional blood oxygenation which comprises
administering into the vasculature of a vascularised human
10 or non-human animal subject a T₂ blood pool contrast agent,
detecting a magnetic resonance signal from at least part of
the vasculature of said subject into which said contrast
agent distributes, and manipulating said signal to generate
an indication of the partial pressure of oxygen (pO₂) in at
15 least part of said vasculature.